

Summit Training Workshop Agenda

	Monday, December 3, 2018	Tuesday, December 4, 2018	Wednesday, December 5, 2018	Thursday, December 6, 2018
8:00	Registration	Registration	Registration	Registration
8:00	Working Breakfast	Working Breakfast	Working Breakfast	Working Breakfast
8:15	Welcome Address + Notes	Welcome Address + Notes	Welcome Address + Notes	Welcome Address + Notes
8:30	Summit Architecture (overview) <i>Scott Atchley</i>	CUDA Unified Memory <i>Jeff Larkin</i>	GPFS <i>George Markomanolis</i>	Debugging (Arm DDT) <i>Nick Forrington</i>
9:00	Summit Architecture (IBM P9, NVIDIA V100) <i>Brian Thompto & Jeff Larkin</i>	GPU Direct, RDMA, CUDA-Aware MPI <i>Steve Abbott</i>	SSDs / Burst Buffers <i>George Markomanolis & Chris Zimmer</i>	Arm MAP / Performance Reports <i>Nick Forrington</i>
9:30	Programming Environment <i>Matt Belhorn</i>	Targeting Summit's Multi-GPU Nodes <i>Steve Abbott</i>	Network Features and MPI Tuning <i>Chris Zimmer</i>	Mixing OpenMP + OpenACC <i>Lixiang (Eric) Luo</i>
10:00	Programming Environment (cont.) <i>Matt Belhorn</i>	Targeting Summit's Multi-GPU Nodes (cont.) <i>Steve Abbott</i>	IBM P9 SMT Deep Dive <i>Brian Thompto</i>	Python Environments <i>Matt Belhorn</i>
10:30	Break	Break	Break	Break
10:45	Storage Areas / Data Transfers <i>George Markomanolis</i>	GPU Accelerated Libraries <i>Jeff Larkin</i>	Experiences using the Volta Tensor Cores on Summit <i>Wayne Joubert</i>	CAAR Porting Experience: QMCPACK <i>Andreas Tillack</i>
11:15	LSF Batch Scheduler & jsrun Job Launcher <i>Chris Fuson</i>	NVIDIA Profilers <i>Jeff Larkin</i>	Experiences Porting/Optimizing Codes for Acceptance Testing <i>Bob Walkup</i>	E3SM Application Readiness Experiences on Summit <i>Matt Norman</i>
11:45	LSF Batch Scheduler & jsrun Job Launcher (cont.) <i>Chris Fuson</i>	Using V100 Tensor Cores <i>Jeff Larkin</i>	Targeting GPUs Using OpenMP Directives on Summit w/GenASiS: A Simple and Effective Fortran Experience <i>Reuben Budiardja</i>	Experiences in Porting XGC to Summit <i>Ed D'Azevedo</i>
12:15	Working Lunch	Working Lunch	Working Lunch	Working Lunch
12:30	Working Lunch - Practical Tips for Running on SUMMIT <i>David Appelhans</i>	Working Lunch - Directive-Based GPU Programming <i>Oscar Hernandez</i>	Working Lunch - Node Performance <i>Wayne Joubert</i>	Working Lunch - ML/DL Frameworks on Summit <i>Junqi Yin</i>
13:15	Hands-On with OLCF Staff and Vendors	Hands-On with OLCF Staff and Vendors	Hands-On with OLCF Staff and Vendors	Hands-On with OLCF Staff and Vendors
17:00	Adjourn	Adjourn	Adjourn	Adjourn